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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/963,858	09/25/2001	Jean J. Frechet	18062G-003510US	1612
20350	7590 02/23/2005		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			RILEY, JEZIA	
TWO EMBARCADERO CENTER EIGHTH FLOOR			ART UNIT	PAPER NUMBER
SAN FRAN	CISCO, CA 94111-3834	1637		
			DATE MAILED: 02/23/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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### **DETAILED ACTION**

## Response to Remarks

- 1. Applicants' arguments, filed on 12/2/2004, have been approved and entered. They have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.
- 2. The declaration under 37 CFR 1.132 filed 12/2/2004 is sufficient to overcome the rejection of claims 8-10, 15-19 based upon Magnusson et al., Hult et al., and Trollsas et al. references.

#### Election/Restrictions

3. Applicant only traversed the previous examiner restriction requirement, filed 11/17/2003. In the proposed AGS filed 2/23/04, (page 17), applicant elected group II for prosecution on the merits. Applicant did not traverse the AGS and therefore it has been considered without traverse. After reviewing the elected species, claims 8-10, 15-25 have been examined. Claims 1-7, 11-14, 26-48 have been withdrawn.

# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

a. 5 ·

Claims 8-10, 15-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 is vague and indefinite because R5 and R6 can be a structure comprising R3 and R4 moieties. However, there is no description in the claims as to what exactly are R3 and R4.

Claims 24-25 are vague and indefinite because the dendrimer subunit comprising R5 and R6. However, there is no description in the claims as to what exactly are R5 and R6.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in thisOffice action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 8-10, 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Annby et al. (Tetrahedron Letters, 39, 1998, 3217-3220).

Annby discloses a dendrimer building block which is viewed to identical to the instant claims (see structure 2, page 3218). They described that by repeated acylation and deprotection procedures they have synthesized the 2-4<sup>th</sup>

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generation dendrimers (page 3218), which is viewed to inclusive of instant claim 19.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Annby et al. (Tetrahedron Letters, 39, 1998, 3217-3220) in view of Tomalia et al. (US 5,714.166).

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Annby discloses a dendrimer building block which is viewed to identical to the instant claims (see structure 2, page 3218). They described that by repeated acylation and deprotection procedures they have synthesized the 2-4<sup>th</sup> generation dendrimers (page 3218).

Tomalia disclose the use of dendrimers as carriers for agricultural, pharmaceutical, and other materials, especially those materials which are bioactive and/or targeted.

Therefore it would have been obvious at the time the invention was made to use the dendrimer of Annby for a pharmaceutical acceptable carrier since Tomalia shows that dendrimers are useable as pharmaceutical carrier. It has been found that the size, shape and properties of these dense star polymers or STARBURST polymers can be molecularly tailored to meet specialized end uses. STARBURST polymers have significant advantages which can provide a means for the delivery of high concentrations of carried material per unit of polymer, controlled delivery, targeted delivery and/or multiple species delivery or use. (Tomalia col.1).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 571-272-0786. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax Art Unit: 1637

phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Monday, February 21, 2005

/ **JEZIA RILEY PRIMARY EXAMINER**